

RECLAMATION

Managing Water in the West

MP CONSTRUCTION OFFICE

Willows, California

Construction Progress Report – L29

January 2013



San Luis Demonstration Treatment Plant

Looking northwest as grouted stone piers are installed at the west edge of Areas A and B

"Doing It Right from the Start"



U.S. Department of the Interior
Bureau of Reclamation
Mid-Pacific Region

CONSTRUCTION PROGRESS REPORT (L-29)
MP CONSTRUCTION OFFICE
MID-PACIFIC REGION
January 2013

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RECLAMATION

Managing Water in the West



STAFFING – MID PACIFIC CONSTRUCTION OFFICE

The Mid Pacific Construction Office had 62 construction and administrative employees at the close of this month as follows:

Construction Engineer's Office	2
Preaward & Project Management Group	3
Administrative Management	11
Division of Field Engineering	26
Division of Office Engineering	11
Materials Lab Branch	9

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

MEANING

ARRA	American Recovery and Reinvestment Act
CCAO	Central California Area Office
CVP	Central Valley Project
KBAO	Klamath Basin Area Office
LBAO	Lahontan Basin Area Office
MP	Mid Pacific Regional Office
MPCO	Mid-Pacific Construction Office
NCAO	Northern California Area Office
SCCAO	South Central California Area Office
TO	Tracy Office

CCAO

Contract No. R10PC20R15

Specification No. 20-C0649A

Fixed Wheel Gate Rehabilitation – American River Division – Folsom Unit - Central Valley
Project, California

Abide International, Inc., Sonoma, CA

Work Performed:	January	0%
	Time Elapsed	82.1%
	Work Completed	47.3%
Contractor Earnings:	January	\$0
	Previous	\$2,529,703.18
	Total to Date	\$2,529,703.18

Area Office Project Management

Project Manager: Jesse Castro, CC-607

Office Engineering

Contract Administrator: Larry Bowman, MPCO-240

No invoices were received this period.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Gustavo Aguilera, MPCO-337

Number of Contract Employees: 12

Work performed:

Folsom Fixed Wheel Gate Rehabilitation:

The contractor with his subcontractors replaced the gate system in Unit 2 with the rehabilitated gate system from Unit 1. Western Integrated Technologies performed the hydraulic hook-up and programming for the gate. Leakage at Gate 2 increased after the rehabilitated Gate 1 was installed.

Contract No. R10PC20019

Specification No. 20-C0689

Folsom Power Plant Generators U1, U2, and U3 Rewind and Excitation System Replacement–

American River Division – Folsom Unit – Central Valley Project, California

Andritz Hydro Corp, Charlotte, NCFolsom Fixed Wheel Gate Rehabilitation

Work Performed:	January	0%
	Time Elapsed	63.6%
	Work Completed	62.0%

Contractor Earnings:	January	\$1,674,634.31
	Previous	\$10,637,860.64
	Total to Date	\$12,312,494.95

Area Office Project Management

Project Manager: Jesse Castro, CC-607

Office Engineering

Contract Administrator: Madelyn Giles, MPCO-210

Invoice 8 was received and forwarded to the Denver finance office for processing. It was not for work done this period, but for work done through November 30, 2012.

Modification 17, deobligating excess funds, was executed this period.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Todd Dooley, MPCO-314; Sergio Vivar, MPCO-311

Number of Contract Employees: 26

Work performed:

Andritz-Hydro performed the loop test on the Unit 1 stator core.

Andritz Hydro retorqued the top and bottom nuts on the key bars and tack welded the fulcrum bolts to the top finger plate. The contractor sanded lamination slots, applied semi-conducting coating, and measured the circularity and concentricity of the new stator core.

Andritz Hydro installed top and bottom stator bars, recorded the bar pusher pressure, and verified the bar seating. The contractor also performed a Hi-Potential Test on the stator bars, the Polarization Index test, and a megger test on RTDs. The tests were without incident.

Andritz Hydro installed permanent wedges and used a dial indicator to confirm a ripple spring compression of 70%.

IRIS Power installed six PDA couplers along the top shelf of the stator frame.

Andritz-Hydro “bled” stator bar ends and cleaned bars with brass wire brushes.

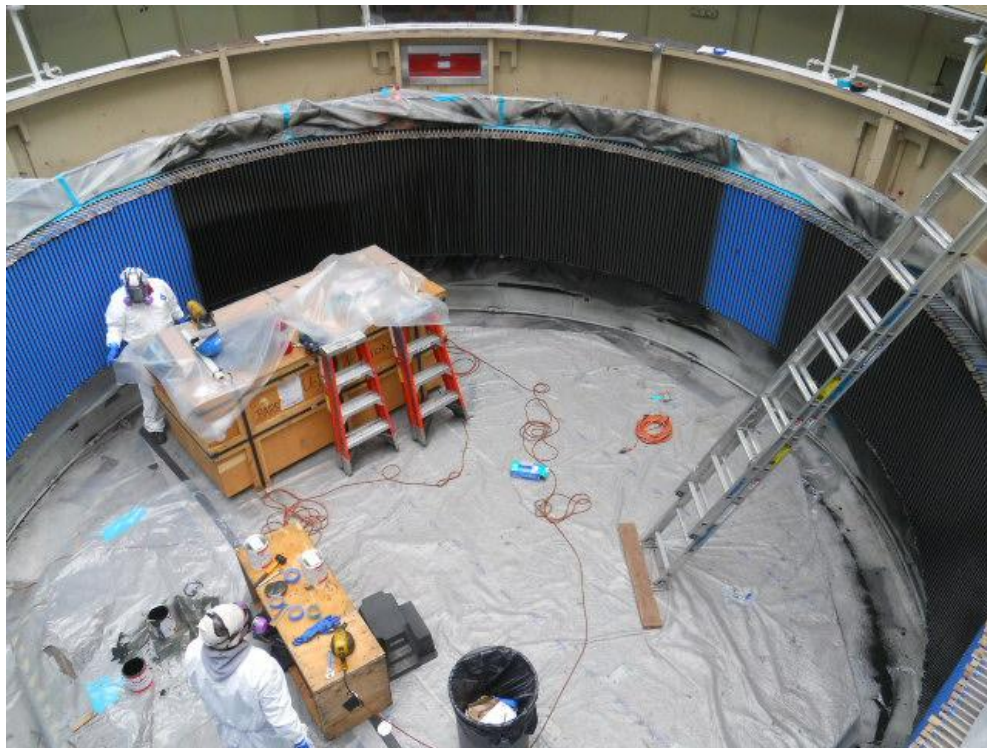
Andritz-Hydro installed series clips along the bottom and top ends of the stator bars, and inspected the brazed joints ensuring that a visible fillet existed between each strand of the bar end copper and the series connection.

Andritz-Hydro brazed bottom bar jumper connections. The contractor wrapped damp Thermosil fiber cloths around heated connections, then secured a strip of silfos between the jumper and stator bar, and applied a silfos fillet on them. Then, the contractor installed insulation wrapping at jumper connections and wrapped resin coated *micamat* tape at jumper connections.

Andritz Hydro lashed both bar to bar connections and bar to ring connections.

Andritz Hydro set the new Power Potential Transformer and the exciter cubicles on the Unit 1 equipment platform.

Andritz-Hydro installed the Unit 3 equipment platform posts and beams.



Folsom Power Plant Generators U1, U2, and U3 Rewind and Excitation System Replacement
Stator core with the semi-conducting paint and masking tape.

Contract No. R10PC20767

Specification No. 20-C0703

Folsom Power Plant U1, U2, and U3 Replacement Runners – American River Division – Folsom Unit – Central Valle-y Project, California

Voith Siemens Hydro Power Generation, Inc., York, PA

Work Performed:	January	0%
	Time Elapsed	81.5%
	Work Completed	72.1%

Contractor Earnings:	January	\$0
	Previous	\$5,283,450.21
	Total to Date	\$5,283,450.21

Area Office Project Management

Project Manager: Jesse Castro, CC-607

Office Engineering

Contract Administrator: Madelyn Giles, MPCO-210

No invoices were received this period.

Field Engineering

Construction Manager: N/A supply contract

Construction Representative: N/A supply contract

Number of Contract Employees: N/A supply contract

Work performed: N/A supply contract

Contract No. R09PC20171

Specification No. 20-C0720

Nimbus Powerplant HVAC System Modification – American River Division – Folsom Unit,

Central Valley Project, California

Perryman Mechanical, Inc., West Sacramento, CA

Work Performed:	January	0%
	Time Elapsed	100%
	Work Completed	79.9%
Contractor Earnings:	January	\$0
	Previous	\$428,963.09
	Total to Date	\$428,963.09

Area Office Project Management

Brian Zewe, CC-607A

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

The contractor has only to complete overdue submittals and is expected to complete submittal requirements in the next few months.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Todd Dooley, MPCO-314

Number of Contract Employees: 0

Work performed:

All site work has been completed and the substantially complete date was December 17, 2010.

Contract No. R10PC20114

Specification No. 20-C0754

Folsom Dam – Safety of Dams Modification – MIAD Key-Block – American River Division,

Folsom Unit, Central Valley Project, California.

Shimmick Construction Co., Inc., Sacramento, CA

Work Performed:	January	0%
	Time Elapsed	100%
	Work Completed	93.8%

Contractor Earnings:	January	\$475,509.64
	Previous	\$42,182,469.05
	Total to Date	\$42,657,978.69

Area Office Project Management

Project Manager: Larry Hobbs, CC-106

Office Engineering

Contract Administrator: Larry Bowman, MPCO-240

Invoice 29 was received and forwarded the Denver finance office for processing. It was not for work this period but was for work through December 28, 2012.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Howard Diedrich, MPCO-316; Sean Frische, MPCO-317

Number of Contract Employees: 20

Work Performed:

CELL F:

Cell F was completed last month.

CELL C:

Shimmick Construction Co., Inc. completed Cell C this month. Select backfill was placed from elevation 368' to elevation 380'.

DEMOBILIZATION:

Shimmick Construction Co., Inc. continued demobilizing equipment and contract and modification related material from site this month. The majority of the equipment and material including both crushing plants, batch-plant MSB, and PC800 are offsite now and the remaining equipment are being utilized to finish the site restoration work.

SITE RESTORATION:

Shimmick Construction Co., Inc. continued site restoration work this month, which included stabilizing the contract pond area, grading the main site to elevation 380', grading the batch-plant

area, removing underground electrical conduit and water pipe, establishing a roadway, and stabilizing the final excavated material stockpile.

Site restoration work still pending are restoring the access area roadway, stabilizing/seeding the final stockpile area and site, stabilizing overlay test pad/borrow area, stabilizing concrete washout/grease truck area, and finish grading the batch-plant area.

MODIFICATIONS 005 and 007:

Shimmick Construction Co., Inc. started demobilizing Mod. 5 and 7 related material to the Arbuckle storage site. Most of the material, including pump control electrical panel, dewatering pumps, VFD pumps, VFD control panels, MSB, XFR switch, inclinometers, gate/check valves, 18-inch HDPE pipes, 6-inch steel casings, and four material connexes were transferred this month.

Remaining modification items that are still to be transferred are the 18-inch HDPE discharge pipes at the modification pond site. SMUD demobilized both the onsite contract and modification transformers. Active Treatment System (ATS) demobilized the arsenic and sand filtration system at the pond site.

Contract No. R10PC20R57

Specification No. 20-C0760

Folsom Dam Civil Maintenance Building – American River Division – Folsom Unit - Central Valley Project, California

Building Solutions Inc., Reno, NV

Work Performed:	December	0%
	Time Elapsed	100%
	Work Completed	97.7%
Contractor Earnings:	December	\$0
	Previous	\$6,618,117.91
	Total to Date	\$6,618,117.91

Area Office Project Management

Project Manager: Ed Roza, CC-608

Office Engineering

Contract Administrator: John Zimmerman, MPCO-230

No invoices were received this period.

Office Engineering is dealing with completion of final submittals, Requests for Equitable Adjustment 4, 6, and 7, and potential liquidated damages.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Michael E. Manlick, MPCO-313

Number of contract employees: 2

Work Performed:

Punch list items, including leak repair, were addressed this period.

Contract No. R10PC20859

Specification No. None

Folsom Dam and Powerplant Site Security System – American River Division – Folsom Unit -
Central Valley Project, California

Trofholz Technologies, Inc., Rocklin, CA

Work Performed:	January	0.6%
	Time Elapsed	100%
	Work Completed	97.9%

Contractor Earnings:	January	\$38,498.01
	Previous	\$6,197,358.93
	Total to Date	\$6,235,856.94

Area Office Project Management

Project Manager: Bill Vanderwaal, MPCO-122

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

Invoice 32 was received and forwarded to the Denver finance office for processing.

A modification will be processed for time extension.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Phil Moseby, MPCO-327

Number of Contract Employees: 6

Work Performed:

All site work was completed in December 2012. The substantially complete date was December 28, 2012.

KBAO

There were no active construction projects underway for the Klamath Basin Area Office in January 2013.

LBAO

There were no active construction projects underway for the Lahontan Basin Area Office in January 2013.

NCAO

Contract No. R10PC20744

Specification No. 20-C0712

J.F. Carr Power Plant, Generator G1 and G2 Rewinds – Trinity River Division – Central Valley
Project California

National Electric Coil, Inc., Columbus, OH

Work Performed	January	0%
	Time Elapsed	100%
	Work Completed	98.2%

Contractor Earnings	January	\$0
	Previous	\$14,918,516.31
	Total to Date	\$14,918,516.31

Area Office Project Management

Program Manager: John Dotter, NC-261

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

No invoices were received this period.

Office Engineering is dealing with final submittals and modifications.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Worked Performed:

The contractor completed all site work in December 2012.

Contract No. R10PC20102

Specification No. 20-C0755

Spring Creek Powerplant Generators G1 and G2 Rewinds – Trinity River Division – Central Valley Project, California

Andritz Hydro Corp., Charlotte, NC

Work Performed:	January	0.6%
	Time Elapsed	53.6%
	Work Completed	66.8%

Contractor Earnings:	January	\$73,001.12
	Previous	\$7,502,740.65
	Total to Date	\$7,575,741.77

Area Office Project Management

Project Manager: Joe Ascoli, NC-650

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

Invoice 5 was received and forwarded to the Denver finance office for processing. It was not for work done this period, but for work done through September 10, 2012.

1-year time extension, new completion date June 28, 2013.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Work performed:

No site work was performed this period. Site work will begin again in November 2013.

Contract No. R12PC20044
Specification No. 20-C0774a
Station Service Switchgear Replacement – Trinity River Division – Central Valley Project,
California
Eaton Corporation, Raleigh, NC

Work Performed:	January	25.5%
	Time Elapsed	80.9%
	Work Completed	86.4%
Contractor Earnings:	January	\$565,853.62
	Previous	1,353,650.68
	Total to Date	\$1,919,504.30

Area Office Project Management
Project Manager: Jeff Gifford, NC-221

Office Engineering
Contract Administrator: Ryan Hennigan, MPCO-211

Notice to Proceed date: April 2, 2012

Invoice 4 was received and forwarded to the Denver finance office for processing.

Field Engineering
Construction Manager: Steve Holmes, MPCO-320
Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 14

Work performed:

The contractor completed demolition of existing switchgear at the JF Carr and Trinity powerplants, and completed installation of new switchgear and controls at JF Carr.

The contractor tested all the breakers in both new switchgears prior to the gears being installed and anchored in the power plants.

At JF Carr Power Plant, the contractor completed replacement of all old switches, controls, wires, and meters with new materials in control panel CSA in the control room. The contractor completed the modification of the two bus ducts from the existing busses to the new switchgear.

At Trinity Power Plant, the contractor completed replacement of all old switches, controls, wires, and meters with new materials in control panel CSA in the control room. The contractor started marking and landing the wires in the new switchgear.

A&M Electric performed the following work:

At JF Carr Power Plant, the workers set up the temporary transformer and switchboard and completed the removal of the existing switchgear, reactor, busing, and old feeders. They installed and anchored the new switchgear, installed all the new feeders to the individual panels, and landed all the feeders in both the new switchgear and the individual panels. After the new switchgear was energized, they removed the temporary transformer and feeders and mobilized the gear to Trinity Power Plant.

At Trinity Power Plant, the workers set up the temporary transformer and switchboard and completed the removal of the existing switchgear, reactor, busing, and old feeders. They installed and anchored the new switchgear, and installed all the new feeders to the individual panels.

Cal Inc. and Heffernan Environmental performed the following work:

At JF Carr and Trinity, the workers removed all the asbestos coated wires in the control panels at both power plants. They removed the lead-coated metal work at both plants and transported all the material off site.



Station Service Switchgear Replacement

The new switchgear operational at JF Carr Power Plant. Note three breakers on the switchgear are locked out by NCAO operators.

Contract No. R12PC20077

Specification No. 20-C0787

Shasta Dam Temperature Control Device Wire Rope Replacement – Shasta Division – Central Valley Project, California

Alltech Engineering Corp., Mendota Heights, MN 55120

Work Performed:	January	31.7%
	Time Elapsed	29.0%
	Work Completed	31.7%
Contractor Earnings:	January	\$516,061.34
	Previous	\$0
	Total to Date	\$516,061.34

Area Office Project Management

Project Manager: Bob Gee, NC-230

Office Engineering

Contract Administrator: John Zimmerman, MPCO-230

Invoice 1 was received and forwarded to the Denver finance office for processing. It was not for work done this period but was for work done through December 31, 2012.

Field Engineering

Construction Manager: Steven Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 4

Work performed:

The contractor completed removal and installation of all middle and pressure relief gate cables on Shutter Structures 1 through 5. Utilizing a boom truck crane, the contractor reassembled all hoist drum covers. Each gate was exercised five times to remove stretch from the cables and then set the upper and lower gate limit switches. The contractor hauled all scrap cable to the Shasta Dam waste yard to be reclaimed at a later date.

The substantially complete date is January 29, 2013.



Shasta Dam Temperature Control Device Wire Rope Replacement
The contractor moving reassembled hoist drum covers for reinstallation

Contract No. R12PC20053

Specification No. 20-C0789

Shasta Powerplant Control and Computer Room HVAC Replacement – Shasta Division –

Central Valley Project, California

Ray-Mac Mechanical, Inc., Mt. Shasta, CA.

Work Performed:	January	0%
	Time Elapsed	100.0%
	Work Completed	94.3%

Contractor Earnings:	January	\$0
	Previous	\$309,680.00
	Total to Date	\$309,680.00

Area Office Project Management

Project Manager: Bob Gee, NC-230

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

Notice to Proceed date: April 26, 2012

No invoices were received this period.

The contractor has only to complete final submittals.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Work performed:

No site work was performed as the contractor completed all site work in October 2012. The substantially complete date was October 5, 2012.

Contract No. R10PC20025

Specification No. None

Coleman Fish Hatchery Water Intakes Vegetation Replacement and Monitoring – Shasta

Division – Central Valley Project, California

Tehama Environmental Solutions, Inc., Red Bluff, CA

Work Performed:	January	0%
	Time Elapsed	43.7%
	Work Completed	88.4%
Contractor Earnings:	January	\$0
	Previous	\$626,095.31
	Total to Date	\$626,095.31

Area Office Project Management

Project Manager: Hank Harrington, NC-210

Office Engineering

Contract Administrator: Jacquelyn Olds, MPCO-202

No invoices were received this period.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 0

Work performed:

The contractor's current activity consists of maintaining vegetation it planted in 2010.

Contract No. R11PC20235

Specification No. None

Red Bluff Diversion Dam, Fish Passage Improvement Project, Terrestrial Mitigation –
Sacramento Canal Units – Sacramento River Division – Central Valley Project, California
Tehama Environmental Solutions, Inc., Red Bluff, CA

Work Performed:	January	0%
	Time Elapsed	15.2%
	Work Completed	69.8%

Contractor Earnings:	January	\$275,125.68
	Previous	\$3,034,045.40
	Total to Date	\$3,309,171.08

Area Office Project Management

Project Manager: Bill Vanderwaal, MPCO-122

Office Engineering

Contract Administrator: Jacquelyn Olds, MPCO-202

Invoice 7 was received and forwarded to the Denver finance office for processing. It was not for work done this period, but for work done through November 30, 2012.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 11

Work performed:

During this period the Tehama Environmental Solutions, Inc. crew worked at the emergent marsh areas planting the remaining containers that included spike rush, wire rush, common rush and deer rush. The crew planted along the fish passage channel left side looking downstream. The crew planted on the left side of the channel between approximate stations 2+50 to 7+50, and 16+00 to 30+00.

Subcontractor Meyers Earthwork worked on hauling off site the processed material, the crew also ripped the ground in preparation for the hydroseeding between approximate stations 11+50 and 14+00 at the processing area.

Modification #2

Tehama Environmental Solutions, Inc. crew worked on hauling off site the removed vegetation, finishing the work for this modification.

Subcontractor Dominic's surveyor checked the final elevation at the southern island after the work for this modification was completed; the information will be incorporated in the as-built drawings.

Modification #4

Subcontractor Meyers crew finished the repair work at the southern and northern island; they installed the ¼ ton rip rap material at both places. The work for this modification was completed.

Subcontractor Dominic's surveyor checked the final elevation on the repaired areas to incorporate them in the as-built drawings.



Red Bluff Diversion Dam, Fish Passage Improvement Project, Terrestrial Mitigation
Subcontractor Meyers Earthwork performing Modification 4 repair work at
the northern island

SCCAO

Contract No. R10PC80R23

Specification No. 20-C0761

Delta-Mendota Canal–California Aqueduct Intertie – Central Valley Project – California

Shimmick Construction Company, Inc., Tracy, CA

Work Performed:	January	0%
	Time Elapsed	100%
	Work Completed	99.4%

Contractor Earnings:	January	\$0
	Previous	\$15,223,893.71
	Total to Date	\$15,223,893.71

Area Office Project Management

Project Manager: Erika Kegel, MP-730

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

The contractor has only to complete final submittals.

No invoices were received this period.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Chris Van Deusen, MPCO-345

Number of Contract Employees: 0

Work performed:

All site work except for punch list items was completed in May 2012.

No work was performed this period.

Contract No. R11PC20185

Specification No. 20-C0778

Tracy 13.8kV Switchgear/Breaker Replacement – Tracy Pumping Plant and Substation – Central Valley Project, California

Contra Costa Electric Corp., Martinez, CA

Work Performed:	February	0%
	Time Elapsed	38.2%
	Work Completed	10.4%
Contractor Earnings:	February	\$0
	Previous	\$1,207,280.72
	Total to Date	\$1,207,280.72

Area Office Project Management

Project Manager: Warren Feng, TO-438

Office Engineering

Contract Administrator: Amber Pierce, MPCO-205

This is a design/build contract.

No invoices were received this period

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: TBD

Number of Contract Employees: 7

Work performed:

No site work was performed as the contract is still in the design phase.

Contract No. R11PC20062

Specification No. 20-C0785

Tracy Fish Collection Facility - Trash Rake Monorail Extension – Delta Division – Central Valley Project, California

Monterey Mechanical Co., Oakland, CA

Work Performed:	January	0%
	Time Elapsed	53.6%
	Work Completed	9.0%
Contractor Earnings:	January	\$58,375.00
	Previous	\$0
	Total to Date	\$58,375.00

Area Office Project Management

Project Manager: David Tsao, TO-435

Office Engineering

Contract Administrator: Larry Bowman, MPCO-240

Invoice 1 was received and forwarded to the Denver finance office for processing. It was not for work done this period, but was for work done through December 31, 2012.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 7

Work performed:

A portion of the existing sheet pile was removed and hauled offsite. The electrical trench was dug on the north side of the bridge and the electrical conduit was roughed in.

Contract No. R12PC20107
Specification No. 20-C0788
San Luis Demonstration Treatment Plant – San Luis Unit Drainage –
West Stanislaus Division – San Louis Unit – Central Valley Project, California
Slayden Construction Group, Inc., Stayton, OR

Work Performed:	January	0%
	Time Elapsed	19.2%
	Work Completed	1.4%
Contractor Earnings:	January	\$0
	Previous	\$302,686.44
	Total to Date	\$302,686.44

Area Office Project Management
Project Manager: Cheryl Carter, SCC-105

Office Engineering
Contract Administrator: Casandra Arthur, MPCO-245

No invoices were received this period.

Field Engineering
Construction Manager: John Nelson, MPCO-328
Construction Representative: Chris Van Deusen, MPCO-345

Number of Contract Employees: 10

Work performed:
Slayden Construction Group, Inc.
Slayden continued mobilization of equipment and offices and provided support to subcontractors. Slayden located existing irrigation wells and applied for county abandonment permit.

O'Dell Engineering
O'Dell Engineering provided Stormwater Pollution Prevention Plan inspections and monitoring as required.

McElvany, Inc.
No Activity this month.

Panoche Drainage District
Panoche employees visited the site frequently and monitored construction activities.

Malcolm Drilling, Inc.

Malcolm Drilling began installation of grouted aggregate piers, completing a total of 110 including all test piers this month.



San Louis Demonstration Treatment Plant
Installation of grouted aggregate piers for the treatment building site

Regional

Contract No. R10PC20005

Specification No. 20-C0717

North Fork Screens and Ladders – Battle Creek Salmon and Steelhead Restoration Project,
California

Syblon Reid Contractors, Folsom, CA

Work Performed:	January	0%
	Time Elapsed	100%
	Work Completed	97.4%
Contractor Earnings:	January	\$0
	Previous	\$12,333,348.93
	Total to Date	\$12,333,348.93

Area Office Project Management

Project Manager: Mary Marshall, MP-203

Office Engineering

Contract Administrator: Kent Perkes, MPCO-225

No invoices were received this period.

The remaining work for the contractor to perform is to gain approval of a few final submittals including as-built drawings.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: John Pospishil, MPCO-321

Number of Contract Employees: 0

Work performed:

The contractor completed all contract site work in December 2011, and demobilized its field office. However, substantial completion will not be issued until as-built drawings are approved.

Contract No. R10PC20R42

Specification No. 20-C0746

Hydropower Facility Modifications - Stage 1 – ARRA Project No. 14.000 - Battle Creek Salmon and Steelhead Restoration Project, California

RTA Construction/Ray Toney JV, Redding, CA

Work Performed:	January	0%
	Time Elapsed	100%
	Work Completed	99.0%

Contractor Earnings:	January	\$413,953.14
	Previous	\$7,038,081.66
	Total to Date	\$7,452,034.80

Area Office Project Management

Project Manager: Mary Marshall, MP-203

Office Engineering

Contract Administrator: Kent Perkes, MPCO-225

Invoices 27 and 28 were received and forwarded to the Denver finance office for processing. They were not for work done this period, but were done for work through December 27 and 28, 2012, respectively.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: John Pospishil, MPCO-321

Number of Contract Employees: 0

Work performed:

No onsite work occurred this period. RTA does not plan on performing any onsite work until materials for Modifications 12 and 15 arrive on site. The last weekly coordination meeting was held on December 11, 2012. RTA provided a schedule to finish the remaining work which shows RTA will be onsite from February 11, 2013 through February 13, 2013. These dates are during a Pacific Gas and Electric outage which begins February 11.

Purchase Order No. R10PX20R54

Specification No. 20-C0750

Drought Relief, Well Enhancements – ARRA Project No. 28.000 – Central Valley Project Don
Don Pedro Pump, LLC–Turlock, CA

Work Performed:	January	0%
	Time Elapsed	100%
	Work Completed	92.4%

Contractor Earnings:	January	\$0
	Previous	\$1,158,062.10
	Total to Date	\$1,158,062.10

Area Office Project Management

Project Manager: Kevin Clancy, MP-410

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

Invoice 11 - Final was received and forwarded to the Denver finance office for processing. It was not for work done this period but was for work done through December 31, 2012.

A final modification is forthcoming to deobligate excess funds.

The contractor completed all contract work (submittals) this period.

Field Engineering

Construction Manager: John Nelson, MPCO-328

Construction Representative: Mike McCarty, MPCO-308

Number of Contract Employees: 0

Work performed:

All site work was completed in December and the final substantial completion was issued on December 6, 2012.

Contract No. R10PC20R80

Specification No. 20-C0759

Drought Relief – Construction of New Wells – ARRA Project No. 28.002 – California

Layne Christensen Company, Fontana, CA

Work Performed:	January	0%
	Time Elapsed	100%
	Work Completed	96.2%

Contractor Earnings:	January	\$0
	Previous	\$14,977,666.61
	Total to Date	\$14,977,666.61

Area Office Project Management

Project Manager: Kevin Clancy, MP-410

Office Engineering

Contract Administrator: John Zimmerman, MPCO-232

No invoices were received this period.

Field Engineering

Construction Manager: John E. Nelson, MPCO-328

Construction Representative: John E. Nelson, MPCO-328

Number of Contract Employees: 6

Work performed:

San Louis Water District Well 43: The control cabinet was set, electrical topped out, and preparations were made for the 4-hour field pump test

Contracts in Warranty Status

R09PC20R03 20-C0677 Transformer K1A and K2A Replacements, Folsom Power

There was no Office Engineering Administrative activity this period.

5-year warranty for K1A extends to January 30, 2016, and that for K2A extends to January 4, 2017.

R10PC20128 No. 20-C0706 New Melones Power Plant Excitation System Replacement

There was no Office Engineering Administrative activity this period.

1-year warranty extends to May 24, 2013.

R10PC20R11 20-C0730 Red Bluff Pumping Plant and Fish Screen, Pumps and Motors

There was no Office Engineering Administrative activity this period.

3-year warranty extends to August 2015.

R10PC20R39 20-C0744 Volta Wasteway Refuge Level 2 Diversification Phase I Project –
ARRA Project No. 28.129

There was no Office Engineering Administrative activity this period.

1-year warranty extends to February 9, 2013.

R10PX20R45 No. 20-C0750 Drought Relief, Well Enhancements

There was no Office Engineering Administrative activity this period.

1-year warranty for Tulare Irrigation District Well 1.16 extends to May 13, 2013. The 1-year warranties for all other wells have expired.

R10PC20R33 20-C0752 Red Bluff Pumping Plant and Fish Screen

Closeout submittals were dealt with this period.

1-year warranty extends to September 26, 2013.

R10PC20197 20-C0768 Control, Upgrade and Modernization of the Gantry and Bridge Cranes
at the Folsom Dam and Powerplant

There was no Office Engineering Administrative activity this period.

2-year warranty extends to September 7, 2013.

R10PC20196 20-C0769 Control Upgrade and Modernization of the Gantry Crane at Nimbus
Powerplant

There was no Office Engineering Administrative activity this period.

2-year warranty extends to June 13, 2013.

R11PC20155 No.20-C0776a Delta Cross Channel Gate Control and Lighting Improvements

Closeout submittals were dealt with this period.

1-year warranty extends to April 24, 2013.

R12PC20055 20-C0776b Delta Cross Channel Gate Hoist Wire Rope Replacement

There was no Office Engineering Administrative activity this period.

1-year warranty extends to May 11, 2013.

R11PC20158 20-C0777 Stampede Powerplant and Switchyard Recoatings

There was no Office Engineering Administrative activity this period.

1-year warranty extends to August 12, 2013.

R11PC20124 20-C0780 Coleman National Fish Hatchery Barrier Weir Site Modifications

There was no Office Engineering Administrative activity this period.

1-year warranty extends to September 28, 2013.

R12PC20193 20-C0791 Shasta Dam Traffic Circle Pavement Rehabilitation

There was no Office Engineering Administrative activity this period.

1-year warranty extends to August 4, 2013.

R10PC20R32 20-C0749 Fish Screen Structure Phase 3, Contra Costa Canal

1-year warranty for M340 CPU located inside the SCADA panel ends March 20, 2013.

1-year warranty for Siemens ultrasonic level transmitter ends August 21, 2013.

Lab Reports

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U.S. Bureau of Reclamation

SUMMARY OF FIELD AND LABORATORY TESTS OF COMPACTED FILL
CONTROLLED BY THE RELATIVE DENSITY/RELATIVE COMPACTION METHOD

PROJECT: Central Valley
PERIOD OF REPORT: 12/31/2012 - 01/31/2013

SPECIFICATION REQUIREMENTS:

FEATURE: MIAD Key-Block

Min Relative Compaction: 95.00 %
Max Relative Compaction: 95.00 %

TOTAL MATERIAL PLACED: 0 Cubic Yards

SPECIFICATION NO: 20-C0754

UNITS PER ACCEPTED TEST: 0 Cubic Yards

FILL NAME: 1 - Key Block

TEST NUMBER				LOCATION			FIELD DENSITY TESTS								INDEX TESTS				GRADATION				VISUAL SOIL CLASS	OTHER TESTS	REMARKS
M O N T H T E S T N U M B E R	S U B S E C T I O N	S E C T I O N	B L O C K	STATION	OFF SET	ELEV	METH OF COMP	USBR TEST METH	WET DEN TOT MAT (PCF)	SPEC GRAV		CONTROL FRACTION		DEG OF SAT (%)	MAX INDEX DEN (PCF)	MIN INDEX DEN (PCF)	REL DEN (%)	REL COMP (%)	+3" (%)	GRV (%)	SND (%)	FIN (%)			
										+3	-3	DRY DEN (PCF)	MOIS CONT (%)												
01-04-A-01-R-A* 16'WOE	4	CELL+0C	CL	377	VR	7205	143.2	4.0	2.72	2.72	137.7	4.0	47	143.5	0.0	100.0	96.0	0	63	30	8	GW	N	22'NOS	
01-07-A-01-R-A* 14'NOS	4	CELL+0C	CL	380	VR	7205	146.9	6.7	2.72	2.72	137.7	6.7	78	140.5	0.0	100.0	98.0	0	56	34	10	GP	N	62'WOE	
ACCEPTED TESTS THIS PERIOD: 2							AVG.	145.1	5.4	2.72	2.72	137.7	5.4	63	142.0	0.0	100.0	97.0	0	60	32	9			
							S.D.	2.6	1.9	0.00	0.00	0.0	1.9	22	2.1	0.0	0.0	1.4	0	5	3	1			
							C.O.V.	1.8	35.7	0.00	0.00	0.0	35.7	36	1.5	0.0	0.0	1.5	0	8	9	16			

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U.S. Bureau of Reclamation

STATISTICAL SUMMARY OF FIELD AND LABORATORY TESTS OF COMPACTED FILL
CONTROLLED BY THE RELATIVE DENSITY/RELATIVE COMPACTION METHOD

PROJECT: Central Valley
01/07/2013

SPECIFICATION REQUIREMENTS:

PERIOD OF REPORT: 12/31/2012 -

FEATURE: MIAD Key-Block

Min Relative Compaction: 95.00 %
Max Relative Compaction: 95.00 %

TOTAL MATERIAL PLACED: 0 Cubic Yards

SPECIFICATION NO: 20-C0754

UNITS PER ACCEPTED TEST: 0 Cubic Yards

FILL NAME: 1 - Key Block

	<u>This Period</u>	<u>To Date</u>
No. of Tests Taken	2	22
No. of Tests Accepted	2	22
No. of Tests Rejected	0	0
No. of Rejected Tests not Re-Checked	0	0
Average Percent +3-Inch Material	0.0	3.5
Average Percent Gravel	59.5	52.7
Average Percent Sand	32.0	26.1
Average Percent Fines	9.0	6.7
Average Wet Density Total Material (PCF)	145.1	152.7
Average Moisture Content Control Fraction (%)	5.4	5.3
Average Dry Density Control Fraction (PCF)	137.7	145.2
Average Minimum Dry Density (PCF)	0.0	0.0
Average Maximum Dry Density (PCF)	142.0	142.5
Average Percent Relative Density (PCF)	100.0	100.0
Average Percent Relative Compaction (PCF)	97.0	102.0
Percent of Accepted RC Tests Less Than 95.00	0.0	0.0
Percent of Accepted RC Tests Greater Than 95.0	100.0	100.0
Tests Accepted Outside of Specification Limits	2	22
Maximum RC of 95.0	2	22

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U.S. Bureau of Reclamation

Concrete Construction Data

Concrete Class: Lean Concrete Fill
Report of Mixes Used From 12/07/2012 to 01/31/2013

Mix Design Number: 1529207
Specification Number: 20-C0754
Project: MIAD Key-Block
Feature: Lean Concrete

		Percent Of																Fresh Concrete Tests										Compressive Strength Of Individual Specimens				
(psi)								Yield Quantities per Cubic Yard										Air														
	y^3	Coarse Aggregate																														
Date	of	in each size						Pounds						Oz				Cem	M	Slump	UW	W/	Grav	Press	3	7	28	90	180			
1	Time	Conc	Sand	CA1	CA2	CA3	CA4	Water	Cem	Poz	Sand	C.A.	AD#3	AEA	WRA	AD#4	AD#5	Eff	P	(ins)	(pcf)	C+P	Meth	Meter	Day	Day	Day	Day	Day			
Year																																
12/07/2012																																
10:19	650.00	67.8	100.0	0.0	0.0	0.0	0.0	461	420	107	2003	951	0	0.0	0.0	0.0	0.0	4.5	63	7.00	146.0	0.87	-2.9	0.5		1230	1860	3250				
																										1310	1900	3380				
11:53	650.00	67.9	100.0	0.0	0.0	0.0	0.0	443	407	103	1940	916	0	0.0	0.0	0.0	0.0	3.6	63	7.00	141.1	0.87	0.7	0.5		1050	1500	2580				
																										1030	1430	2650				
Design		45.0	100.0	0.0	0.0	0.0	0.0	475	399	101	1257	1542	0	0.0	0.0	0.0	0.0			8.00	139.8	0.95	0.4	0.4			1000					
AVG.		67.9	100.0	0.0	0.0	0.0	0.0	452	414	105	1972	934	0	0.0	0.0	0.0	0.0	4.0	63	7.00	143.5	0.87	-1.1	0.5		1155	1673	2965				
S.D.		0.1	0.0	0.0	0.0	0.0	0.0	13	9	3	45	25	0	0.0	0.0	0.0	0.0	0.6	0	0.00	3.5	0.00	2.5	0.0		137	242	409				
C.O.V		0.1	0.0	0.0	0.0	0.0	0.0	2.8	2.2	2.7	2.3	2.7	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	2.4	0.5	***	0.0		11.9	14.5	13.8				

Bureau.....: Required average strength = 1125 psi at 28 days. Based on 90% exceeding the design strength of 1000 psi & C.O.V. (n=102) = 8.7

ACI.....: Required average strength = 1171 psi at 28 days (n=102)

CURE METHOD...: Water Tank with an Average Cure Temperature of 59 - 67 (F)

U.S. Bureau of Reclamation
Aggregate Gradation Summary

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From 12/01/2012 to 12/31/2012

Specification : 20-C0754
Mix Number : 1529207
Project : MIAD Key-Block

Feature : MIAD Key-Block Lean Concrete

Nominal Size : 1" (ASTM)

Combined Aggregate Gradations for Lean Concrete

Date	Percent Passing Screen Sizes in Inches or Sieve Size Shown					Moist %	Spec Grav	Absorp
	1 1/2"	1"	1/2"	#4	#8			
Spec Max %		100.0		50.0		10		
Spec Min %		100.0		0.0		0		

12/07/2012C		100.0		41.7		6.8	N/A	2.72 1.00

Average		100.0		41.7		6.8	3.80	2.72 1.00